

### **REMARKS**

Claims 1-41 are pending in the present application. Claims 1, 3-14, 21, 24, 25 and 27-35 have been amended. Claims 36-41 have been presented herewith.

### **Priority Under 35 U.S.C. 119**

Applicants note the Examiner's acknowledgment of the Claim for Priority under 35 U.S.C. 119, and receipt of the certified copy of the priority document.

### **Drawings**

Enclosed herewith are six (6) drawing Replacement Sheets. **The Examiner is respectfully requested to acknowledge receipt and approval of the drawing Replacement Sheets.**

### **Claim Rejections-35 U.S.C. 102**

Claims 1-5 and 8-35 have been rejected under 35 U.S.C. 102(b) as being anticipated by the Krayeski et al. reference (U.S. Patent No. 5,471,146). This rejection is respectfully traversed for the following reasons.

The antenna device of claim 1 is featured as for transmitting and receiving radio waves, the antenna device being connectable to a portable radio communication device terminal. The antenna device as connectable to the portable radio communication terminal device includes in combination a transmitter section and a receiver section,

whereby the receiver section includes a receiving antenna structure "switchable between a plurality of antenna configuration states, each antenna configuration state being distinguished by a set of radiation related parameters", and a switching device "capable of selectively switching said receiving antenna structure between said plurality of antenna configuration states". The antenna device further comprises in combination a measuring device "capable of receiving a first measure representing a reflection coefficient as measured at said transmitter section", and a control device "capable of controlling said switching device of said receiver section, wherein said selective switching of said receiving antenna structure between said plurality of antenna configuration states is effected, in response to said first measure representing said reflection coefficient". Applicants respectfully submit that the Krayeski et al. reference as relied upon by the Examiner does not disclose these features.

The Examiner has very generally relied upon Fig. 1 of the Krayeski et al. reference as described in column 2, line 65 through to column 3, line 37 and column 4, lines 17-59, as disclosing the features of claim 1. However, Applicants respectfully submit that the Krayeski et al. reference as relied upon by the Examiner does not disclose a receiving antenna structure "switchable between a plurality of antenna configuration states, each antenna configuration state being distinguished by a set of radiation related parameters", as featured in claim 1.

As described in column 3, lines 11-13 of the Krayeski et al. reference, antenna switch 18 as illustrated in Fig. 1 allows transceiver 10 to appropriately switch from the

receiver portion (22 and 30) to the transmitter portion 12. That is, antenna switch 18 merely switchably connects the transmitter portion of transceiver 10 including transmitter 12 to antenna 20 during a transmit mode of operation, or in the alternative switchably connects the receiver portion of transceiver 10 as including receiver front and back ends 22 and 30 to antenna 20 during a reception mode. For example, as described in column 4, lines 21-23 of the Krayeski et al. reference, antenna switch 18 is configured in a transmit mode.

Applicants respectfully submit that antennas 20 and 60 in Fig. 1 of the Krayeski et al. reference are not described or even remotely suggested as being **switchable between a plurality of antenna configuration states**, whereby each antenna configuration state is distinguished by a set of radiation related parameters. Antennas 20 and 60 are not configurable into a plurality of antenna configuration states. The configuration of antennas 20 and 60 are not discussed as being changed, the antennas maintain the same configuration but are merely switchably connected to receiver and transmitter sections of the transceiver. Applicants therefore respectfully submit that the antenna device of claim 1 distinguishes over the Krayeski et al. reference as relied upon by the Examiner, and that this rejection of claims 1-5 and 8-23 is improper for at least these reasons.

With further regard to claim 1, since the Krayeski et al. reference as relied upon by the Examiner does not disclose a receiving antenna structure switchable between a plurality of antenna configuration states that are each distinguished by a set of radiation

related parameters, the Krayeski et al. reference clearly fails to disclose a switching device that is capable of selectively switching a receiving antenna structure between a plurality of antenna configuration states under control of a control device that is responsive to a first measure representing a reflection coefficient as measured at a transmitter section.

That is, the configuration state of antennas 20 and 60 of the Krayeski et al. reference are not disclosed or even remotely suggested as being configurable into different antenna configuration states, particularly responsive to a measure representing a reflection coefficient as measured at a transmitter section. For example, the only switchable aspect of transceiver 10 in the Krayeski et al. reference is antenna switch 18 which switchably couples antenna 20 to either the transmitter portion or the receiver portion of transceiver 10. Antennas 20 and 60, and particularly configuration states thereof, are not disclosed or even remotely suggested as controlled responsive to a first measure representing a reflection coefficient as measured at a transmitter section. Accordingly, Applicants respectfully submit that the antenna device of claim 1 distinguishes over the Krayeski et al. reference as relied upon by the Examiner, and that this rejection of claims 1-5 and 8-23 is improper for at least these additional reasons.

With further regard to claim 1, the antenna device is featured as connectable to a portable radio communication terminal device. In contrast, the Krayeski et al. reference is directed to a multi-transceiver base station system that provides wide area

PCS or telepoint service coverage. The Krayeski et al. reference does not disclose an antenna device connectable to a portable radio communication terminal device, and thus is not concerned with improving antenna performance of portable terminals wherein the adverse effects of interaction between the antenna device and a telephone body or the proximate environment including the user or nearby objects disruptively influences performance, as in the present invention. Accordingly, Applicants respectfully submit that the antenna device of claim 1 distinguishes over the Krayeski et al. reference as relied upon by the Examiner, and that this rejection of claims 1-5 and 8-23 is improper for at least these additional reasons.

Applicants respectfully submit that the antenna device of claim 24 distinguishes over the Krayeski et al. reference as relied upon by the Examiner for somewhat similar reasons as set forth above. Particularly, the the Krayeski et al. reference does not disclose an antenna device connectable to a portable radio communication terminal device. The Krayeski et al. reference also fails to disclose a receiver section including in combination an antenna structure switchable between a plurality of antenna configuration states to receive a second RF signal, each of the plurality of antenna configuration states being distinguished by a set of radiation related parameters, whereby switching of the antenna configuration states is responsive to a measure representing a reflection coefficient as measured at a transmitter section. Applicants therefore respectfully submit that claim 24 distinguishes over the Krayeski et al. reference, and that this rejection of claim 24 is improper, for at least these reasons.

The method for transmitting and receiving electromagnetic waves in a portable radio communication device of claim 25 includes in combination "receiving from a transmitter a measure representing a reflection coefficient", and "controlling a switching device to selectively switch an antenna structure of an antenna device of a receiver between a plurality of antenna configuration states in response to said measure representing the reflection coefficient, each of said plurality of antenna configuration states being distinguished by a set of radiation related parameters".

Applicants respectfully submit that the Krayeski et al. reference does not disclose or even remotely suggest an antenna device of a receiver that is selectively switchable between a plurality of antenna configuration states responsive to a measure representing a reflection coefficient as provided from a transmitter. Accordingly, Applicants respectfully submit that the method for transmitting and receiving electromagnetic waves of claim 25 distinguishes over the Krayeski et al. reference as relied upon by the Examiner, and that this rejection of claims 25-35 is improper for at least these reasons.

#### **Claims 36-41**

Applicants respectfully submit that claims 36-41 distinguish over and would not have been obvious in view of the Krayeski et al. reference as relied upon by the Examiner, at least by virtue of dependency upon claim 1, and in further view of the features therein.

**Conclusion**

The Examiner is respectfully requested to reconsider and withdraw the corresponding rejections, and to pass the claims of the present application to issue, for at least the above reasons.

In the event that there are any outstanding matters remaining in the present application, please contact Andrew J. Telesz, Jr. (Reg. No. 33,581) at (703) 715-0870 in the Washington, D.C. area, to discuss these matters.

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment for any additional fees that may be required, or credit any overpayment, to Deposit Account No. 50-0238.

Respectfully submitted,

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Enclosures: Six (6) Drawing Replacement Sheets